

Amendments to the Claims

This listing of claims will replace the prior version in the application.

CLAIMS

1. (currently amended) A process for the preparation of thermoset materials and objects comprising:
 - a- preparing a formulation (A) comprising, by weight, from 10 to 99% of at least one epoxide prepolymer and from 1 to 90% of at least one first rheology-regulating agent (I),
 - b- preparing a formulation (B) comprising, by weight, from 1 to 90% of at least one hardener and from 10 to 99% of at least one second rheology-regulating agent (II),
 - c- preparing a semifinished product by mixing formulation A and formulation B,
 - d- preparing a desired structure with the semifinished product obtained in c, and thereafter,
 - e- reacting, via heat and/or pressure, formulation A and formulation B in the desired structure to obtain a composite material.
2. (previously presented) The process as claimed in claim 1, characterized in that the first rheology-regulating agent and second rheology-regulating agent are individually at least one block copolymer chosen from S-B-M, B-M or M-B-M block copolymers in which:
 - each block is connected to the other by means of a covalent bond or of one or more intermediate molecules connected to one of the blocks via a covalent bond and to the other block via another covalent bond,
 - M is a polymer miscible with the epoxide prepolymer,
 - B is incompatible with the epoxide prepolymer and with the M block,
 - S is incompatible with the thermosetting resin and with the B block.
3. (previously presented) The process as claimed in claim 2, characterized in that the M block is chosen from poly(methyl methacrylate) homopolymers or copolymers comprising at least 20% by weight of methyl methacrylate.
4. (previously presented) The process as claimed in claim 3, characterized in that the

- M blocks of the block copolymers are composed of at least 75% syndiotactic PMMA.
5. (withdrawn) The process as claimed in claim 2, characterized in that the M blocks of the block copolymers additionally comprise reactive monomers.
 6. (previously presented) The process as claimed in claim 2, characterized in that the T_g of the B blocks is less than 0°C.
 7. (previously presented) The process as claimed in claim 2, characterized in that the B block is chosen from poly(alkyl acrylate)s, or polydienes.
 8. (previously presented) The process as claimed in claim 7, characterized in that the B block is a 1,4-polybutadiene.
 9. (withdrawn) The process as claimed in claim 7, characterized in that the dienes of the B block are hydrogenated.
 10. (previously presented) The process as claimed in claim 2, characterized in that the T_g or the M.p. of S is greater than 23°C.
 11. (previously presented) The process as claimed in claim 10, characterized in that S is polystyrene.
 12. (previously presented) The process as claimed in claim 2, characterized in that the weight-average molar mass of the block copolymers is between 10 000 g/mol and 500 000 g/mol.
 13. (previously presented) The process as claimed in claim 12, characterized in that the weight-average molar mass of the block copolymers is between 20 000 g/mol and 200 000 g/mol.
 14. (previously presented) The process as claimed in claim 1, characterized in that said preparation of a semifinished product is via coweaving.
 15. (withdrawn) A woven or knitted fabric prepared according to the process of claim 14.
 16. (withdrawn) The process as claimed in claim 1, characterized in that said preparation of a semifinished product is via coextrusion.
 17. (withdrawn) The process as claimed in claim 1, characterized in that said preparation of a semifinished product is via impregnation by a mixture of powders.
 18. (withdrawn) A thermoset object prepared according to the process of claim 16.
 19. (withdrawn) The process of claim 1, characterized in that said semifinished product further comprises fibers, mats, woven fabric or combinations thereof.
 20. (previously presented) The process of claim 1, characterized in that said reacting comprises heating, applying pressure or a combination thereof.

21. (previously presented) The process of claim 1, characterized in that said first rheology-regulating agent (I) and said at least one second rheology-regulating agent (II) are the same or different.
22. (withdrawn) The process of claim 5, characterized in that said reactive monomer is selected from glycidyl methacrylate, tert-butyl methacrylate or acrylic acid.
23. (previously presented) The process of claim 6, characterized in that the Tg of the B blocks is less than -40°C .
24. (withdrawn) The process of claim 7, characterized in that said poly(alkyl acrylate) is selected from poly(butyl acrylate), poly(ethylhexyl acrylate) or poly(octyl acrylate).
25. (previously presented) The process of claim 10, characterized in that the Tg of S is greater than 50°C .
26. (withdrawn) A thermoset object prepared according to the process of claim 17.